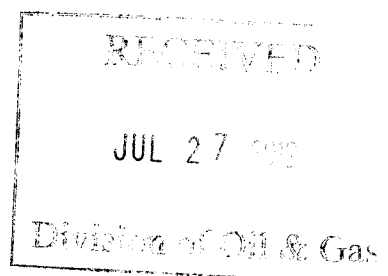




**CLEARWATER™**  
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## Material Safety Data Sheet

# BXL A

HEALTH	*	1
FLAMMABILITY		0
PHYSICAL HAZARD		0
PERSONAL PROTECTION		

### 1. Product and Company Identification

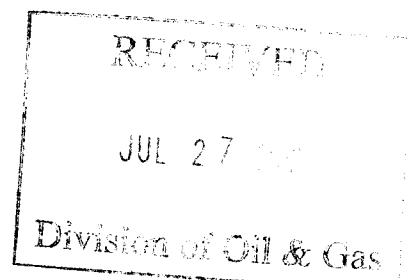
<b>Material name</b>	<b>BXL A</b>
<b>Patent Number</b>	Not available
<b>Revision date</b>	September-19-2008
<b>Version No.</b>	3
<b>CAS #</b>	Mixture
<b>Product use</b>	Gel Breaker
<b>Manufacturer information</b>	Clearwater International L.L.C. 100 Leetsdale Industrial Drive Leetsdale, PA 15056 US CHEMTREC 1-800-424-9300/703-527-3887
<b>Emergency</b>	CHEMTREC 1-800-424-9300/703-527-3887
<b>Supplier information</b>	Clearwater International L.L.C. 100 Leetsdale Industrial Drive Leetsdale, PA 15056 US

### 2. Hazards Identification

<b>Emergency overview</b>	Harmful by inhalation, in contact with skin and if swallowed. Prolonged exposure may cause chronic effects. Components of the product may be absorbed into the body by inhalation, ingestion and through the skin.
<b>OSHA regulatory status</b>	This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
<b>Potential health effects</b>	
<b>Routes of exposure</b>	Inhalation. Skin contact. Eye contact. Ingestion.
<b>Eyes</b>	This product causes eye burns. Risk of serious damage to eyes. Do not get this material in contact with eyes.
<b>Skin</b>	Causes skin burns. Do not get this material in contact with skin.
<b>Inhalation</b>	Causes burns. Prolonged inhalation may be harmful. Do not breathe dust/fume/gas/mist/vapors/spray.
<b>Ingestion</b>	Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract. May cause delayed lung damage. Do not ingest. Components of the product may be absorbed into the body by ingestion.
<b>Target organs</b>	Eyes. Lungs. Respiratory system. Skin.
<b>Chronic effects</b>	Shortness of breath. May cause delayed lung damage.
<b>Signs and symptoms</b>	Discomfort in the chest. Shortness of breath. Cough.
<b>Potential environmental effects</b>	May cause long-term adverse effects in the environment.



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### 3. Composition / Information on Ingredients

Components	CAS #	Percent
Proprietary Ingredient	XXXXX-XX-X	40 - 70

### 4. First Aid Measures

#### First aid procedures

##### Eye contact

Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

##### Skin contact

Wash off with soap and water. Get medical attention if irritation develops or persists.

##### Inhalation

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention immediately.

##### Ingestion

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice.

#### Notes to physician

In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

#### General advice

In case of shortness of breath, give oxygen. Keep victim warm. Call a physician if symptoms develop or persist. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire Fighting Measures

#### Flammable properties

Combustible by OSHA criteria. Containers may explode when heated. Runoff to sewer may cause fire or explosion hazard.

#### Extinguishing media

##### Suitable extinguishing media

Alcohol foam. Polymer foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Halons.

##### Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

#### Protection of firefighters

##### Specific hazards arising from the chemical

Fire may produce irritating, corrosive and/or toxic gases.

##### Protective equipment and precautions for firefighters

In the event of fire and/or explosion do not breathe fumes. Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Withdraw immediately in case of rising sound from venting safety devices or any discoloration of tanks due to fire. Move containers from fire area if you can do it without risk. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible, withdraw from area and let fire burn.

### 6. Accidental Release Measures

#### Personal precautions

Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering. Keep unnecessary personnel away. Stay upwind. Keep out of low areas.



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#### Methods for containment

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent entry into waterways, sewers, basements or confined areas.

#### Methods for cleaning up

Should not be released into the environment.

Large Spills: Dike far ahead of liquid spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

Never return spills in original containers for re-use.

### 7. Handling and Storage

#### Handling

Do not breathe vapors or spray mist. Use only with adequate ventilation. Avoid release to the environment. Wash thoroughly after handling. Avoid prolonged exposure.

#### Storage

Store in a closed container away from incompatible materials. Store in accordance with local/regional/national/international regulation.

### 8. Exposure Controls / Personal Protection

#### Exposure limits

##### ACGIH

##### Components

##### CAS #

##### TWA

##### STEL

##### Ceiling

Proprietary Ingredient

XXXXX-XX-X

5 mg/m3

Not established

Not established

#### Engineering controls

Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

##### Eye / face protection

Do not get this material in contact with eyes. Wear chemical goggles. Face-shield.

##### Skin protection

Do not get this material in contact with skin. Do not get this material on clothing. Wear chemical protective equipment that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Protective gloves. Impervious gloves. Structural firefighters protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations.

##### Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA). When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

##### General hygiene considerations

Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. When using do not eat or drink. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

### 9. Physical & Chemical Properties

#### Appearance

Liquid.

#### Color

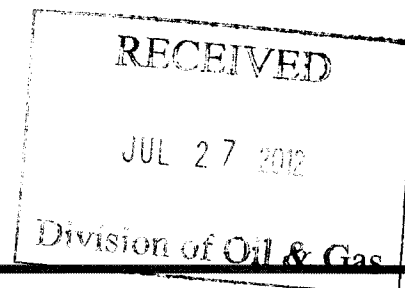
clear, colorless

#### Odor

Not available.



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Odor threshold	Not available
Physical state	Liquid.
Form	Liquid.
pH	8 - 11.9
Melting point	51.8 °F (11.03 °C) estimated
Freezing point	Not available
Boiling point	433.4 °F (223 °C) estimated
Flash point	N.D
Evaporation rate	Not available
Flammability	Not available.
Flammability limits in air, upper, % by volume	Not available
Flammability limits in air, lower, % by volume	Not available
Vapor pressure	Not available
Vapor density	Not available
Specific gravity	1.06 - 1.09
Relative density	1.0749 g/cm3 estimated
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	329 °F (165 °C) estimated
Decomposition temperature	Not available

### 10. Chemical Stability & Reactivity Information

Chemical stability	Stable at normal conditions.
Conditions to avoid	Heat, flames and sparks.
Incompatible materials	Isocyanates. Strong oxidizing agents. Strong acids. Vinyl acetates. Caustics.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

### 11. Toxicological Information

Acute effects	Acute LD50: 9859 mg/kg estimated, Rat, Oral Acute LD50: 4706 mg/kg estimated, Rat, Dermal Causes burns.
Component analysis - LD50	
Toxicology Data - Selected LD50s and LC50s	
Proprietary Ingredient	XXXXX-XX-X      Oral LD50 Rat: 4190 mg/kg; Dermal LD50 Rabbit:>2000 mg/kg; Dermal LD50 Rat:>16 mL/kg
Chronic effects	Hazardous by OSHA criteria. Prolonged or repeated exposure may cause lung injury. Prolonged exposure may cause chronic effects.
Carcinogenicity	Not expected to be hazardous by OSHA criteria.
Neurological effects	Not expected to be hazardous by OSHA criteria.



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## 12. Ecological Information

### Ecotoxicity

LC50 19253 mg/L estimated, Fish, 96.00 Hours,  
EC50 733 mg/L estimated, Daphnia, 48.00 Hours,  
IC50 88.16 mg/L estimated, Algae, 72.00 Hours,  
Components of this product have been identified as having potential environmental concerns.

#### Ecotoxicity - Freshwater Algae Data

Proprietary Ingredient	XXXXX-XX-X	72 Hr EC50 Scenedesmus subspicatus: 216 mg/L; 96 Hr EC50 Scenedesmus subspicatus: 169 mg/L
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#### Ecotoxicity - Freshwater Fish Species Data

Proprietary Ingredient	XXXXX-XX-X	96 Hr LC50 Pimephales promelas: 11800 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 450-1000 mg/L [static]
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#### Ecotoxicity - Microtox Data

Proprietary Ingredient	XXXXX-XX-X	30 min EC50 Pseudomonas putida: >10000 mg/L
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#### Ecotoxicity - Water Flea Data

Proprietary Ingredient	XXXXX-XX-X	24 Hr EC50 Daphnia magna: 1386 mg/L
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### Environmental effects

#### Ecotoxicity - Freshwater Algae Data

Proprietary Ingredient	XXXXX-XX-X	72 Hr EC50 Scenedesmus subspicatus: 216 mg/L; 96 Hr EC50 Scenedesmus subspicatus: 169 mg/L
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#### Ecotoxicity - Water Flea Data

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## 13. Disposal Considerations

### Waste codes

Not assigned.

### Disposal instructions

Dispose of this material and its container at hazardous or special waste collection point. Do not allow this material to drain into sewers/water supplies. Incinerate the material under controlled conditions in an approved incinerator. Dispose in accordance with all applicable regulations.

## 14. Transport Information

### Department of Transportation (DOT) Requirements

Not regulated as hazardous goods.

### Department of Transportation (DOT) Requirements

#### Bulk

Not regulated as hazardous goods.

### Department of Transportation (DOT) Requirements

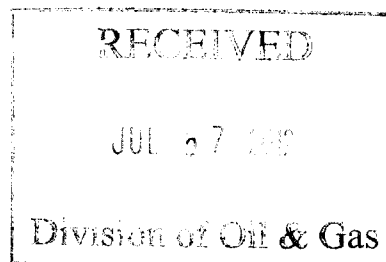
Not regulated as dangerous goods.

### Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as hazardous goods.



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#### Canadian Transportation of Dangerous Goods (TDG) Requirements

Not regulated as dangerous goods.

#### IMDG

Not regulated as hazardous goods.

#### IMDG

Not regulated as dangerous goods.

#### IATA

Not regulated as hazardous goods.

#### IATA

Not regulated as dangerous goods.

### 15. Regulatory Information

#### Labelling

**Contains** Proprietary Ingredient

**US federal regulations** All components are on the U.S. EPA TSCA Inventory List.

#### U.S. - FDA - Direct Food Additives

Proprietary Ingredient XXXXX-XX-X 21 CFR 173.315

#### Occupational Safety and Health Administration (OSHA)

**29 CFR 1910.1200 hazardous chemical** Yes

#### CERCLA (Superfund) reportable quantity

Diethanolamine: 100.0000

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

**Hazard categories**  
Immediate Hazard - No  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**Section 302 extremely hazardous substance** No

**Section 311 hazardous chemical** Yes

#### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

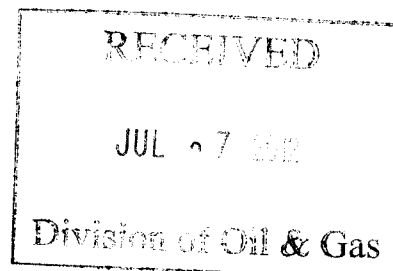
#### International regulations

#### Canada - WHMIS - Ingredient Disclosure List

Proprietary Ingredient XXXXX-XX-X 1 %



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#### State regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

##### U.S. - Massachusetts - Right To Know List

Proprietary Ingredient XXXXX-XX-X Present

##### U.S. - Minnesota - Hazardous Substance List

Proprietary Ingredient XXXXX-XX-X Present

##### U.S. - Pennsylvania - RTK (Right to Know) List

Proprietary Ingredient XXXXX-XX-X Present

##### U.S. - Rhode Island - Hazardous Substance List

Proprietary Ingredient XXXXX-XX-X Flammable

##### U.S. - Texas - Effects Screening Levels - Long Term

Proprietary Ingredient XXXXX-XX-X 5 µg/m3 ESL

##### U.S. - Texas - Effects Screening Levels - Short Term

Proprietary Ingredient XXXXX-XX-X 50 µg/m3 ESL

#### 16. Other Information

##### HMIS® ratings

Health: 1\*  
Flammability: 0  
Physical hazard: 0

##### NFPA ratings

Health: 3  
Flammability: 0  
Instability: 0

##### Prepared by

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##### Issue date

September-19-2008

##### MSDS sections updated

Product and Company Identification: Product and Company Identification